DOMINATOR™ Suite

Integrated warrior combat suite to enhance the effectiveness of the dismounted soldier

Elbit Systems™
Land and C4I

DOMINATOR™ Suite

Integrated warrior combat suite to enhance the effectiveness of the dismounted soldier

Introduction

An Elbit Systems' light warrior combat solution, the DOMINATOR suite enhances the combat effectiveness and survivability of soldiers across all military echelons. Comprised of a series of integrated hardware components, C^4I applications and an advanced Load Carriage System developed by Elbit Systems, DOMINATOR dramatically shortens the sensor-to-shooter loop, supporting battlefield superiority at all times.

Soldier-centric integrated system with advanced networked components

DOMINATOR's elements include advanced C^2 applications, personal network radios (PNR-1000), tactical computers, tracking devices, planning displays and connectivity to sensors. With a seamless integration approach, the solution significantly improves situational awareness and rapid closing of the sensor-to-shooter C^2 chain.

Low-weight ergonomic design for the modern soldier

DOMINATOR uses an optimal ergonomic and bio-mechanical design, combined with an advanced mechanism for ideal weight distribution, stabilization and tight fit. The suite features advanced load carriage and protection, enhancing maneuverability and combat effectiveness on the battlefield.

Modular and scalable – a completely customizable solution

DOMINATOR's components can be tailored to the needs of all soldier types, including commanders, team leaders, forward observers, snipers, special weapons operators and riflemen. The solution is based on an open architecture baseline and uses standard interfaces that will enable seamless upgrades in the future.

DOMINATOR Suite Configurations

LIGHT

The LIGHT configuration provides essential components for the infantry soldier to excel on the battlefield, including the PNR-1000, load carriage and protection (LCP) vest, and a dual radio headset that offers full duplex stereo support, noise compression and high impact gunshot protection. The LIGHT configuration provides advanced communications, continuous self-positioning and load carriage support customized to the soldier's mission profile.

BASIC

Suitable for soldiers in special operations units, platoon commanders or forward observers, the DOMINATOR BASIC builds on the DOMINATOR LIGHT model with the addition of the RAPTOR wearable computing unit. The BASIC's modular combination of communications with hardware and software elements enables effective Blue Force Tracking, enemy spotting, mission plan reception and navigation capabilities using a military anti-spoofing GPS.

ADVANCED

The ADVANCED DOMINATOR is an enhanced version of the BASIC configuration and acts as a powerful planning tool for the mission commander and upper military echelons. By adding a tactical multi-media router (TMR-D) to DOMINATOR BASIC, the combat system and the RAPTOR computing unit can be fully integrated with external networks.

DOMINATOR Suite Components

PNR-1000

Designed for intra-platoon and special forces, the PNR-1000 personal network radio features advanced technology that enables DOMINATOR to provide the dismounted soldier with combat-proven simultaneous digital voice and data communications on the battlefield. The low size and weight (350 g) IP data radio features Elbit Systems' proprietary algorithms for channel equalization, error correction, routing and networking, as well as ad-hoc networking and automatic voice/data relays. Other features include full-duplex conference capability with up to six speakers, long-range (3 Km) communications and robust performance in complex terrain, low power consumption and high-performance hardware and processors.

RAPTOR

Elbit Systems' RAPTOR is an all-in-one wearable computing unit that enables DOMINATOR to provide the dismounted soldier with complete situational awareness through net-centric integrated information systems. In order to meet the screen display size requirements of varying operational roles, the RAPTOR unit can be supplied either in a smartphone or tablet format. A core component of the warrior suite, the compact and ultra-rugged RAPTOR can also be utilized for standalone offline work using the C^2 application while detached from the system.

LOAD CARRIAGE AND PROTECTION (LCP) SUBSYSTEM

The Load Carriage and Protection (LCP) system is a highly advanced soldier-centered integrated system that enables DOMINATOR to enhance the soldier's mobility. The LCP is comprised of concealed armor protection from soft and hard ballistics; a load carriage vest and pouches which employ an advanced mechanism for weight distribution, stabilization and tight fit; grab, patrol and 48-hour packs with a hip belt patent that is designed for carrying heavy weights through a dynamic mechanism; and a hydration system.

DTAC2™ APPLICATION – COMMAND AND CONTROL

The DTAC2™ cross-platform (Android, Windows and Linux) C^2 application provides real-time situational awareness with automatic dissemination of geography and location based on hierarchy. DTAC2™ enables DOMINATOR to enhance C^2 capabilities for all members of the platoon, including Blue Force Tracking, enemy (red) tracking, mission planning, navigation, terrain analysis and 3D visualization. The system can be integrated with multiple communications networks, including the battle management system (BMS). This BMS facilitates in-depth collaborative mission planning and management based on real-time information and an always-updated COP.

DOMINATOR™ Suite

Integrated warrior combat suite to enhance the effectiveness of the dismounted soldier

Add-ons

Mini CORAL:

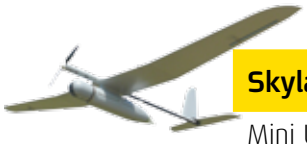
Man-portable thermal imager full target acquisition system

CORAL CR:

Lightweight thermal imaging binocular camera. Full target acquisition system

MCTR-7200HH:

Handheld Software-Defined Radio (SDR)



Skylark™ I-LE X:

Mini UAS system for self-supported reconnaissance missions

TMR-D:

Powerful tactical multimedia router

Thermal Sight:

Thermal Weapon Sight XACT th68 for advanced visual recognition

Key Features

- Low weight with low power consumption
- 3Km of LOS communication range
- Full MANET with 64 members
- Multiple voice groups and speakers (full duplex)
- Day and night operation
- Ergonomic load carriage
- Future-proof architecture

Elbit Systems™ Land and C⁴I

Elbit Systems Land and C4I Ltd.
2 H'amachshev St., Netanya 42507, Israel
E-mail: landc4i@elbitsystems.com www.elbitsystems.com/landc4i

Follow us on

The logo, brand, product, service, and process names appearing herein are the trademarks or service marks of Elbit Systems Ltd., its affiliated companies or, where applicable, of other respective holders.
© 2016. This brochure contains Elbit Systems and others proprietary information. EP10-MKT- 027 ver 2